Assessing Pesticides under the Endangered Species Act

Using geospatial information and datasets

Where are pesticides in the landscape?

- Depends on who you ask!
- Land use vs land cover
 - Use vs Usage
- Chemical specific pesticide labeled uses

Goal

 Develop necessary spatial layers to move through Step 1 of the process

 Step 1 of the three-step risk assessment and consultation process requires that EPA determine the extent to which areas proposed for pesticide application and listed species ranges coexist.

18cv0342 CBD v. EPA & FWS ED_001334_00003648-00003

Deliberative Process / Ex. 5

What are the differences between CDL acreage and NASS Census of Agriculture reports?

- The National Agricultural Statistics Service (NASS) maintains county level agricultural reports considered the "gold standard" for actual on-the-ground acreage
- There are differences between CDL and NASS estimates when comparing acreage
- Statistics generated by CDL are dependent upon pixel counting.
- Pixel counting is usually downward biased when compared to the official estimates. Counting pixels and multiplying by the area of each pixel results in biased area estimates and should be considered raw numbers needing bias correction.

Collecting T&E species information

- Question: Will a Threatened or Endangered species be impacted by the registration of the pesticide?
 - Step 1 No Effect/ May Affect
 - Step 2- Not Likely to Adversely Affect, Likely to Adversely Affect (an individual of a the population)

Step 3- Jeopardy/ No Jeopardy (the population as a whole)







